

TABLE I

cDNA	Embryo Phase	Clone	Nucleotide Sequence
SEQ ID NO:60	Early	LPS-075	GGTGCGATCCCAGTGTAGTTGCTTGTGAGCATAGTTCAAGCTGTTCTGATTCC ACCAAGTTAGTGGCCCAACACTGCGAGGTGCTGCCATTTCCATTCCATTACAGACG TCAGTGTGAAATTCATATAGGAAGCCACAAAGGGTGAGGAAGACCAATCTATTTTC ACTCGCCCCCTTGAGTTGCCCACTGGTCTCCGCTCCATATGCTAGAGAATACTCT CATTGCCTGCTCATTGCGATAGGGAACGCCTATGTTTTCATTGTTTGCAAATACTCT GATTGGCAAACCATCAACGAAAATCGCAATTTGCTGGGGGTTCAGAGAATAGAGT AATTGTGGAAATCTGCTGTAGGATCGCACC
SEQ ID NO:61	Early	LPS-076	GGTGCGATCCCACACTCCTAACCTATTATATGTCTCCCGTCCATGGAGTCATAGA AGGAGTACGATAATATGCCCTTCAGCCAAGCGAAGTATGACTTTAGTATGGCCAGG CAGCAGTATGAAAGCACATCTTGTCTTCCAGGTGCGCATGTATAGTCTCCGGAG GCTAACAAATGTCACCCAAAGCTAATTGCGCAAACGGAACCTCTGCTGATCTCCC GGGAACCTTAGGCGGAACCACTGAATCCACTATTCTACCGCGCATTTTCATCCCT TTGGTGAACGCCGCTGCCTCTGGTAGATACAGAGCTGGCTTGCTCCACTGGAAC CCCCTTTCCGGATCGCACC
SEQ ID NO:62	All	LPS-077	GGTGCGATCCAACTGTGGTTATCGGTGGAGAGATTAAGCAATTTATTGGAGTAGC AAGTACGCTGAATTAAGGGGGTCCATCTTCAAGCAAAGGTTCTTTGGATGACTAT GTGTTCTGGAAGTGTTTATGGATCAATCATCTCATAAATTTTGGTAATATATAACAGA AGATTATGGCATCCAGTTAGGATGGTAGTTTCATTGAGGTATAGTAAAACTACACT AGTCTTGTTGTTGCCACCACTTTTCAGAGAAGTCAGGAGGTCTTTGTGAATCATT GATAACTTTATGAGTGGGTACCTAAATGAAATATTTGCATCTTGAGTATATACTCAAT TGATCTTACTTGTTGGATCGCAC
SEQ ID NO:63	Middle	LPS-078	CTTGGTACCGAGCTCGGATCCACTAGTAACGGCCGCCAGTGCTGGAATTTACG GCTGCGAGAAGACGACAGAACACCTATCATAACTTGAATCTGATGCAAATCGGAA TTTGCCAAAAACTTGGACGGAAATATAATAGGCAATATCATCCCCGCAAGTAACAAA AAAATTGCATGAAAGCTCAAATCCTATGTGCTTTACACCTTGACTGCATACTTTCTC ATTGGAATAACATCTCTTTCTTTTCTGTCTCTCAGTCTTCAATGACGCCTGATGCT TGGTAAGGCGTCGCCGTATAGCACGAGTCTTCTTGGGACGCAAATCAAGAGGCAG GTACTTCTTTTTTTGTATGCTTCTCTTAATGCGGATCGCACC
SEQ ID NO:64	Late	LPS-079	GGTGCGATCCAAGATTGTACGGCACAGGCAAATGCTGTTCTTTTTCTTAATCACGA TGTGCTTGAAGAATATGAGCGCCGATGTGAACAGATCCACAACCTGGAGTTAAAT TGGAGGAAGACAGAGCAGTGCTGAATAGGAGCTTGGCAGAAATAATAGTCTTAAG GAATCCTGGCTTCCACATTGAGGAGTTTGTTACCAGAATTAATGAACTTTCAGC CACAACCTTCAAGGGATGGCTGTTGCTGGAGAAGTTACACTAGATGAACATGGCAT GGATTTTGACAAGTTATGGTATTCTAATAAAAGTCAAGTTACAGGCAAACCTGGACAGT TGCAGGTATTGAATTGCTCATCATCAGTCTGGAGGGATCGCACC
SEQ ID NO:65	All	LPS-080	GGTGCGATCCGAGGGAAGCGATGTAGTCTTGCCCCAAGCGACGACCATGATCCCT TATTCTTGGGCAATATGTGCAAGACGTGGACAAATGAAGCGGTTAAAGGGAAGCTT ATGGACTATGGAATAGAGGGTCTTGAAGAGCTAACTCTAGTGGGTGATACTCAAAA TGAAGGAATAAGCCGTGGTTTTGCATTATAGCATTTTCTACGCACATGGATGCGAT GAATGCATACAAACGCCCTTCAGAGGCCAGATGTTATTTTGGTGCTGATCGAAGT CGAATGTGGCATTTCAGAGCCACTGCGTGAGCCTGACGAAGAGATCATGGCCCA GGTTAAGTCAGTGTTGTTGATGGGATCGCACC
SEQ ID NO:66	Late	LPS-081	GGTGCGATCCAGTCTGAAATGTACTTTACCATTTGTATAATGATGTAAAAATCTT GGCCATAGTCTGGTCAAACCAAGTGTATTGTTGCTAAAGTTATGGAAATCTGGC CATATTTTGTCTAACCAAGTGTATTGTTGCCAAAGTTATGGGAATTCGGGCTATA TTTTTGTCTTCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGATCATAGGG TTGTCTGTGCGTGTCTCTTCTTACACAACAAATTTGTGTGTTTTGCAACTATCCC ATGGGATCGCACC

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cDNA	Embryo Phase	Clone	Nucleotide Sequence
SEQ ID NO:67	Early	LPS-083	GGTGCGATCCGCTGGAAGGTGGGCAGCTGGACATCTGGGAATTATAAGTCGAATG TCAATTGCTGGGCCATCTGGGGGATGAGCAATAGCATCGGAGGCCAAGTTCTTCT GCAGCCGGGCACCAATGCCATGTGGAGGTCTGAATCTTAGTTTGGAGGTCGAAG TTTCAATCCCCTTGTTTACTCTGTTTCTGGTTTTATTTGAATAATTTGAGCAATTT AATGTGGGTCTTAGTGCTTCTGTGGATCAGATTCTAGGGAACGCCATCCTGATAA GTAAAGATCCGAGTTTAAATGGAGATTCAATTCTATCAGAATTCATGGTGGTTTAA ATTCCCTTGACTGTTGATCTACGTCGCTTTGTATATCAGTGTGTGTTAAGATTTTCT CAGAATCCACAGCTTTGTTATGGATCGCACC
SEQ ID NO:68	Middle	LPS-084	GGTGCGATCCAAGCACTTACGACTCCCAACAAGGACGGGAAACTCTAAAATCGGAA AAATATCATATACTGAGGCATCAACTTTGTTGATAAACTTTAAACAAGAACATATT TGCAGCATATTAGCCACATGCCATAATGACAAACAAATATGAGAACACTGCCTACA GGTTTGCCAAAAGCATGGCCCTCACTTTTGGCCTGAGGTCACTCAGGAGCTTCTGAG GCTCGAGAAGGAGAAAAAGATTGTGTCACTTCAGGAGCTGAGGCCTCCACATCTTT TAATGATTTGCGAGCAGGCCTCTCTTAATGTTTTCTTTAGAGGATCGCACC
SEQ ID NO 69	Early	LPS-086	GGTGCGATCCAAGGTACGAGCGAACAAGTTTCTTCAGCAAGCCACCTGGAACCTTC CATGAGTCCAAAACAAGTTGAAGAAGGCTTCTTTGGCTACTTTTAAGATGCTGAAGT GATTGTGCTCGCCTCTTGCACAGTTCAACCGCAATAACATTGGGTTTTACAAAACC GATTACCTGTTAACCTGCTGTGCACTCTTTTTCGAAACATGACAAATTCCAACAAG ATAAACTTCGGCCCCATTCTCGCCATTCCGCAATAAACACGCTCTCATCTTCTGT TATCGAACTCGAGTGCATGCCACGACGCTCAATTGCAGGATTCCAACCCCGGACTT GCCAATGGTGCAAAGCGATGCCCGTTCTGTCTCAGCGATACTGCTAAAGATCGGCA GACCCGAACCAAGTTTGATGCTTCCATTGCCTTAAACATCCAGAGTTTTCTTCGACC TTAAACCCCTAACAAAGATTACTGATTCTGGTCCGGATGTTCACTGTCTGTTATACTT CTCACAAATCTGTCACACTCCTGATAATCTTCGGTATTGAACCTTATTGAATTGAATT TTCTTCTCATTGGAATTCAATTGTACCTTGTAATGTCTGGATCCTACACTATACCA ATATTTACAGGTCTGAGTATTTGCCTGTAGTATAATTATCTTTCCTTCGGTCTCGT GTTCCGTATTATTCGTGATGATCGCACC
SEQ ID NO.70	Late	LPS-087	GGTGCGATCCCGGGGGGAGGTTGATGTTCTGAGAGAATCAATGAAGGGATTTCAG CTGAGCTTGCCTTTTTGAAGACGGAATGCGAACAACCAAGTCATTTGCAATAGCGAG AATTCTCTTAAGCCACTGCCTGCTGGGGAGGCGAGTTCTGATTCCGGTGATTGCAT CACTCAACGGCAGCAGCAGCGGCAGAACCTTTAGTTTCCCATGACAGGTCTCTCTG TACAAGTATCTTCTGTTATGATCTAATTCGGGTTGTTTCGATTATCGTGATGTCTC CTGTATTGACATATTAGCAGAATATTACCATGATACGATGTTAAGTGGCATGGTTTA TGCCCTGCATGTTATGTTATGGAGGAGGTGAGGCATGTGGCGCTCATGGGAGGGC CCACATGGTCCATGGACGCTTATTAAACGCATAGTCGTGAATGAAAATAGTTCAAT ACATTCAAAATCCAACACAATTTCAATTACAATGGAAGTGACTTCGACTTGAATGTT CATTGAAGCATTTGCATGCACAAACAAAGTATACTAGATTAGAAGAAAATTGCAAAA AAGGACATTGTGCCCTTCTTAGTGAATATATAAAGATGTTCTTCATGCTGGATCGCA CC
SEQ ID NO:71	Middle	LPS-088	GGTGCGATCCCAATAGCCAATATTGCCTCCAAGATAGCCTAGACTGCCTTTTGCAT AGTTCTAGAAGCCAGTCACCCAACCTCCCAAAAGAAATTGCGCAATCTTCCCATC AGTTTCCCGGGTATGTGTTCTGTCTCATTCCCCGAATTTCTTTGGTTTTCACTAATAG ATTTCTTTCCATGCACATTGCTTGTCTCCAGATCTTTAGGTGTTTCATCCATCTCTTA GTAGTACTAGATCGATGGCTTCCAAGAGAACAGGATCATATGACACTGTTGGAAAT GTAGCTGGAGCAGCAGTTGAGCAAGTGTCTCTAGTCTATCTATCTATGAAAGATA CACATTGTTTCTAGACATGGATATCAAATTGAAATTGCCAGAAGTCCATGAAACATT TGCCGCCTTTTGAAGAAAGGCTCCAACTGTCAGGGTTCGTTGAACATCACATGTT CTCGCTGTCTGATCCCCC

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cDNA	Embryo Phase	Clone	Nucleotide Sequence
SEQ ID NO:72	Middle	LPS-089	GGTGCGATCCTCAGGGTAATGGCCTGGCTGAATCAAGTAACAAGAATCTTATAACC ATTATCTAAGAAGATAGTAGGAGATAACAAGCGGTCTTGGGACAACAAAATCAAGT GCGCTTTGTGGGCAGATAGGATAACTAAAAAGAAAGCCACTGGTAAAAGTCCCTTT GAACTTGTCTATGGCATGGATTGACATTACATGCCCATCTTAAATTACTAGCTTAC CAACTCCTTCAACATTTTTCTAGTGATAAAGGTGTTGTCCAAAACATGGTTGATCAA ATTGTGCAGTTGGATGAAATCCGCAGGAAAGATTTTGATAGTGCAAAAATCAGTCTA CCATTAAGAAAATCTTTGACAAATCTTCTCGGTCTAGATATTTACAGGTTGGAGATA TGGTTTTACTATGGATTCCACC
SEQ ID NO:73	Late	LPS-090	GGTGCGATCCTGCAGGCTTAGATAGTTTCGGCGCTCCTCTGAAAGAAGCACGAGT AGGTGTCTCCACATTAGGTTGGCCTGATCCCTTGCTGCACCTGCAGCTTGTCTTA CAACATCTCCTATGCTTTGATCCAGGCTTTTCACTGACATAACTTCAGGGGCTTCTT TCTCCCAGGGCCGTGCTGCCATCCAGCGTTCTAGCCAGCTCCATCCCAATTTGG CTTGTTTGGGTCAATTTCCATCAGCATAGGATGAGCTGCTCCTCGTGTGCTTTTCAA TGACTGATGAGAATATGCGTTATGCCAATGCCCTTTCTCGCTTCATGGCTGCTTCTT GCTTGCTTTGAAACTAGCCTCAATTTCTTCTTTGGATTGCAACTGTCATCCAATCC TTTGCTTCCATACTGGATCCAC
SEQ ID NO:74	Late	LPS-091	GGTGCGATCCCAAATGAACATTCAACATTGATCATGTCAAGCGCTAAATGCCTTG GCAGCTTAAAGCTAGACTCCGCAAGTGACCCTTCTGACTTAGTACACATATTAAGA CTCATCAAGGGTCCAATTCCATGAAAAGAAATTTTAAACGGTTACATATTCACAAG AACAGCACGAGATTTCCAGATAGTCAACCACCAACTTGCCCTATCAGCCCAAATA TACTCATTCATGTTAAAAATAGCAAATTTCCAGATAGAATGTCGAAAGAGATCTT CATGCACCATATATGGACTCTTAAACCAGCCAAAATCTATACTGCCATGCTTGGAT CGCACC
SEQ ID NO:75	Late	LPS-092	GGTGCGATCCTGGAGAGAGAAGCAAAAAGCCTACCATCTAAATCTACATTCTAAAT CAGATATCTTTACTGTGAAAGGAATTGAATGCTGCTTCAGATATCCTACAAGAATTA AGAAGAAAAGAATGATCAACTCCAAATCAGGCAGATGGCTCAGAATTTCCCGCAGC TTCATTTTCGACGGCTCCACAACACCAACCTCGGCAGGACGTATTACTCTGCCAT GAAGTGATAGCCAGGCTTCAAACCACAGCCACACTGCCAGGCTGCTTACTAGCA TCTTGAACCTTGAGATACTGCCATGTTGCATATGAGGATCAAACCTTTCATTTATTGG ATCGCACC
SEQ ID NO:76	Late	LPS-093	GGTGCGATCCCCAGAGGTTATTTTGGGTTCAAAGTATTCTACACCAGTTGACATGT GGTCATTTGCTTGCATAATTTTGAAGTGGCTACAGGTGATATGTTATTTGATCCTC AGAGTGCAAGGTTATGACCGCGATGAGGACCACCTTGCCCTGATGATGGAGCT TCTTGGAAAAATACCTCGTAAGATCGCCTTAGGTGGGAGCTATTCACGGGAACCTT TTGACAGGCATGGGGATTTAAAGCACATTAGACGGCTTCGGTATTGGCCCTTGGAT CGCACC
SEQ ID NO:77	Late	LPS-094	GGTGCGATCCTAACTGTATGTCTCCACAATTGTCTTCAATATAGAAGCAGCTACG CCCCCTCCTAAGTCATCATAAGTTAAAAACTTCATCTTTCCAATACAATTAACTATCT AGCTTATCAGTTTGAATAGAGATACAAAATTACAGATAGATTAGCGAACTGTGCC ACAAAACCTCTTCAAAATTAGAAGCATGATTGTCTACAACTCCACTTCAAAAAGGAG CTGAACCAGTCCTTCGAAGGGTGTGCTTTGGTTGGTGGAGGTACAGAAGGCAG CAATTTCTCCAAGAACTGCTGTTTTTTAGCCTCTCATTCTCCTCTTAAAGCTGCATC ACTTCATTCTCTAGCTCATTGTGTATGCCTGCTTTCTTGCCCTGGATCGCACC
SEQ ID NO:78	Middle	LPS-095	GGTGCGATCCGAGTGATGGCACAAAGAAAAGCAATGATAGAAAACAAAGAACAGGT AGCTCAGAAGGTTACGCAACTTAGAGAGTCAACTTCGAGTTAAGGAGGGCGGGAG CAATTGGCAGATTCTTCCAAATTTGTCAAGATCTCTTGGCATGAGATGACCTTATAG GATGTTAAGGAGCAAGAGGATTCTAGGAATAATGCCAAGGATAATAAGACTAAAAG GATGCTTCAAGACCAGGTGGCAAGGAAGGCTTCAATTCAAAGGGAGTTAGCAAC GGCAACAGATGCAATTCTAGGATCGCACC

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